



**SMA NEGERI 28 KABUPATEN TANGERANG**  
**HARIAN MATEMATIKA WAJIB**  
**PENILAIAN TAHUN PELAJARAN 2022 – 2023**

|                                                  |  |       |       |           |
|--------------------------------------------------|--|-------|-------|-----------|
| Nama :                                           |  | Nilai | Paraf |           |
| Kelas :                                          |  |       | Guru  | Orang Tua |
| Kompetensi Dasar : 3.3 dan 4.3 (Operasi Matriks) |  |       |       |           |
| Level Soal : Level 1                             |  |       |       |           |
| Guru Mapel : Asih Restari, S.Pd                  |  |       |       |           |

| No | Soal                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Jawaban                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Skor                          |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1  | <p>Diketahui matriks <math>A = \begin{pmatrix} 2 &amp; -4 \\ -1 &amp; 6 \\ 5 &amp; 3 \end{pmatrix}</math></p> <p>dan <math>B = \begin{pmatrix} -3 &amp; 4 &amp; 5 \\ 2 &amp; 1 &amp; -6 \end{pmatrix}</math>. Tentukan:</p> <p>a. <math>A + B^T</math></p> <p>b. <math>A^T - B</math></p> <p>c. <math>A \times B</math></p>                                                                                                                                    | <p>a. <math>A + B^T = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p>b. <math>A^T - B = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p>c. <math>A \times B = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} \times \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad &amp; \quad \\ \quad &amp; \quad &amp; \quad \\ \quad &amp; \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad &amp; \quad \\ \quad &amp; \quad &amp; \quad \\ \quad &amp; \quad &amp; \quad \end{pmatrix}</math></p> | <p>10</p> <p>10</p> <p>20</p> |
| 2  | <p>Diketahui matriks <math>A = \begin{pmatrix} 2 &amp; a \\ -1 &amp; 3 \end{pmatrix}</math>,</p> <p><math>B = \begin{pmatrix} 4 &amp; 1 \\ b &amp; 5 \end{pmatrix}</math> dan <math>C = \begin{pmatrix} 3 &amp; 5 \\ 2 &amp; 4 \end{pmatrix}</math>. Jika</p> <p><math>A + B = 2C^T</math>, maka tentukanlah nilai</p> <p><math>a \times b</math>!</p>                                                                                                         | <p><math>A + B = 2C^T</math></p> <p><math>\begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} + \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>\begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>\begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>\diamond a =</math></p> <p><math>=</math></p> <p><math>\diamond -1 =</math></p> <p><math>=</math></p> <p><math>\diamond a \times b =</math></p> <p><math>=</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20                            |
| 3  | <p>Afifah dan Titania pergi ke toko "SMART". Afifah membeli 4 buku dan 2 pulpen, sedangkan Titania membeli 3 buku dan 3 pulpen. Harga satuan buku dan pulpen berturut-turut adalah Rp5.000,00 dan Rp3.500,00. Jika matriks A menyatakan jumlah buku dan pulpen yang dibeli Afifah dan Titania, matriks B menyatakan harga masing-masing buku dan pulpen, dan matriks H menyatakan harga yang harus dibayar oleh Afifah dan Titania, tentukanlah matriks H!</p> | <p><math>A = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}, B = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>H = \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix} \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p> <p><math>= \begin{pmatrix} \quad &amp; \quad \\ \quad &amp; \quad \end{pmatrix}</math></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20                            |