Trigonometric Functions Worksheet

For each function, find:

- Amplitude
- Period
- Phase Shift
- Vertical Shift

Level 1:

1. $y = 2\,sin(x)$

2. $y = 3\,cos(x) + 1$

3. $y = -4\,sin(x) - 2$

4. $y = 5\,cos(x)$

5. $y = sin(x) + 4$

6. $y = -2\,cos(x - \pi/6)$

Level 2:

1. $y = 2\,sin(2x)$

2. $y = 3\,cos(0.5x) - 1$

3. $y = -2\,sin(x + \pi/4) + 3$

4. $y = 4\,cos(x - \pi/3)$

5. $y = -3\,sin(2x + \pi/6)$

6. $y = 5\,cos(3x - \pi/2) + 2$

7. $y = 2\,sin(0.5x - \pi/3) - 1$

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Level 3:

1. $y = -3\,sin(2x - \pi/2) + 1$

2. $y = 5\,cos(0.5x + \pi) - 2$

3. $y = -2\,sin(3x + \pi/3) - 4$

4. $y = 4\,cos(2x - \pi/6) + 3$

5. $y = -6\,sin(4x + \pi/4) - 1$

6. $y = 3\,cos(1.5x - \pi) + 5$

7. $y = -4\,sin(0.25x + \pi/2) + 2$

8. $y = 2\,cos(5x - 3\pi/4) - 3$

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