

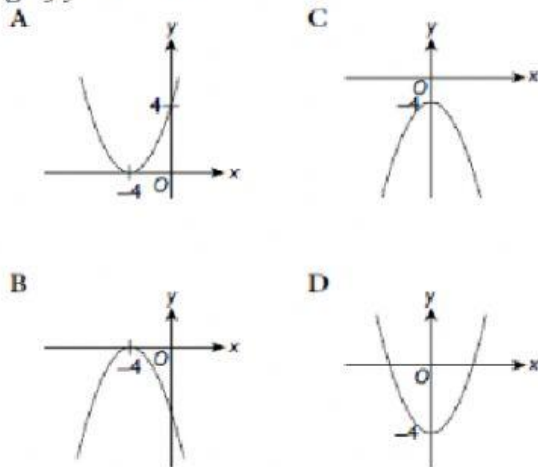
Quadratic Equations *Persamaan Kuadratik*

Easy / *Senang*

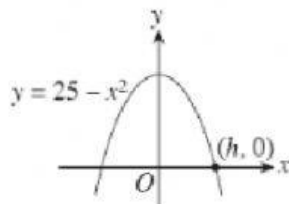
1. $x(x-3) =$
 A $x-3x$ C x^2-3
 B x^2-3x D x^2+3x
2. $5y(1-2y) =$
 A $5y-2$ C $5y-10y^2$
 B $5y-2y^2$ D $5y^2-10$
3. $(7-k)k =$
 A $7-k^2$ C $7k^2-k$
 B $7k-k^2$ D $7k^2-k^2$
4. $(2r-1)(r-1) =$
 A $2r^2+1$ C $2r^2-3r+1$
 B $2r^2-r+1$ D $2r^2+3r-1$
5. $(t+1)(t-3) =$
 A t^2-2t-3 C t^2+2t+3
 B t^2+t+3 D $2t^2-t-3$
6. Expand $4p(1-p)$.
Kembangkan $4p(1-p)$.
 A $4p-p^2$
 B $4p-4p^2$
 C $4p^2-2p$
 D $4p^2-4p$
7. $(3x-1)(x-5) =$
 A $3x^2-x+5$
 B $3x^2-2x+5$
 C $3x^2-x+5$
 D $3x^2-16x+5$
8. $(r-1)(3-r) =$
 A $-r^2+4r-3$
 B $-r^2-5r+2$
 C r^2-3r-4
 D r^2-4r+1
9. $100m^2-36 =$
 A $2(50m^2-18)$ C $4(5m-3)(5m+3)$
 B $4(25m^2-9)$ D $4(5m-3)^2$
10. $x^2-12x+36 =$
 A $(x-6)^2$ C $(x+3)(x-12)$
 B $(x-6)(x+6)$ D $(x-9)(x+4)$
11. Which of the equations below is **not** a quadratic equation in one unknown?
*Antara persamaan berikut, yang manakah **bukan** suatu persamaan kuadratik dalam satu pemboleh ubah?*
 A $p^2-5p=14$ C $6m^2-11n+4=0$
 B $\frac{x^2+10}{7}=x$ D $10q=5q^2$
12. Express $2y^2+2y=13y-15$ in the general form.
Ungkapkan $2y^2+2y=13y-15$ dalam bentuk am.
 A $2y^2-11y+15$ C $15+11y-2y^2$
 B $2y^2-11y+15$ D $2y^2+15-11y$
13. Which of the values of x below is a root of the quadratic equation $8x^2+2x-3=0$?
Antara nilai x berikut, yang manakah merupakan punca bagi persamaan kuadratik $8x^2+2x-3=0$?
 A $x=-\frac{1}{2}$ C $x=-3$
 B $x=\frac{1}{2}$ D $x=3$
14. Find the values of x for the quadratic equation $(x+3)(x-5)=0$.
Cari nilai-nilai x bagi persamaan kuadratik $(x+3)(x-5)=0$.
 A $3, 5$ C $3, -5$
 B $-3, -5$ D $-3, 5$

Graph of Function *Fungsi Graf*

15. Which of the following represents the graph $y = x^2 - 4$?
 Antara berikut, yang manakah mewakili graf $y = x^2 - 4$?



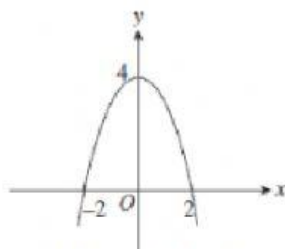
16. The diagram shows the graph of a function.
 Rajah di bawah menunjukkan graf suatu fungsi.



Find the value of h .
 Cari nilai h .

- A -5 C 5
 B -3 D 6

17. Diagram shows a quadratic equation drawn on a Cartesian plane.
 Rajah menunjukkan suatu fungsi kuadratik yang dilukis pada satu satah Cartesan.

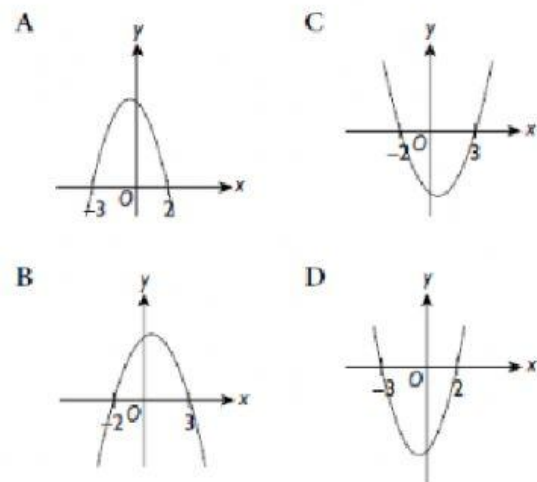


Diagram/Rajah

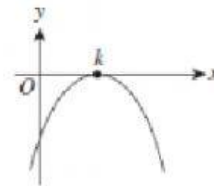
Find the equation of the graph.
 Cari persamaan bagi graf itu.

- A $y = 2 - x^2$ C $y = 4 - x^2$
 B $y = 2 + x^2$ D $y = 4 + x^2$

18. Which graph represents $y = -x^2 - x + 6$?
 Graf manakah yang mewakili $y = -x^2 - x + 6$?



19. Diagram shows the graph of the function $y = -3(x - 4)^2$.
 Rajah menunjukkan graf bagi fungsi $y = -3(x - 4)^2$.



Find the value of k .

Cari nilai k .

- A 12
 B 6
 C 4
 D 2

20. Which of the following graphs represents $y = x^2 - x - 2$?
 Antara graf berikut, yang manakah mewakili $y = x^2 - x - 2$?

