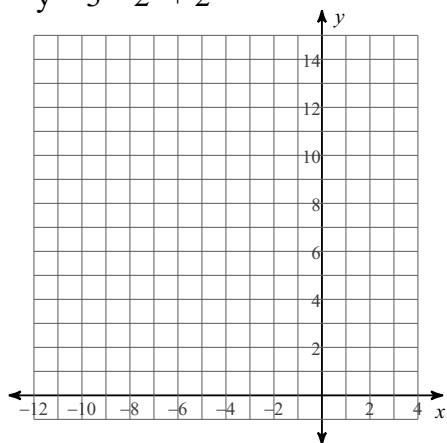


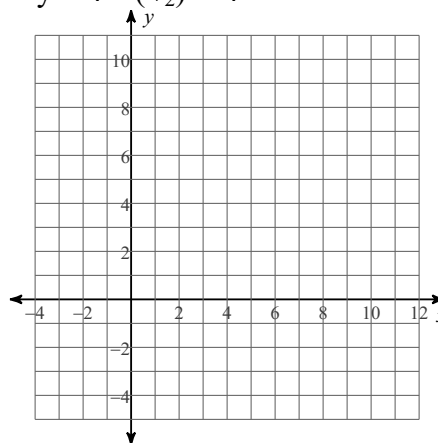
Week Twenty-Five Homework

Graph each exponential function using a calculator and data table.

1) $y = 3 \cdot 2^x + 2$



2) $y = 4 \cdot \left(\frac{1}{2}\right)^x - 4$



Distribute each.

3) $-6(5x - 4)$

4) $4x(5x - 2)$

5) $(x + 4)(x + 7)$

6) $(x + 6)(x + 13)$

7) $(x - 2)(x - 13)$

8) $(x - 5)(x - 9)$

9) $(x - 6)(x + 8)$

10) $(x + 5)(x - 8)$

Factor each into $(x \pm a)(x \pm b)$ form.

11) $x^2 + 5x - 6 = (\quad)(\quad)$

12) $x^2 - 7x - 8 = (\quad)(\quad)$

13) $x^2 - 7x - 10 = (\quad)(\quad)$

14) $x^2 - 9x + 14 = (\quad)(\quad)$

15) $x^2 - 8x + 15 = (\quad)(\quad)$

16) $x^2 + 4x - 45 = (\quad)(\quad)$

17) $x^2 + 6x - 16 = (\quad)(\quad)$

18) $x^2 + 11x + 24 = (\quad)(\quad)$

19) $x^2 - 11x + 28 = (\quad)(\quad)$

20) $x^2 - 15x + 50 = (\quad)(\quad)$

$$21) 3x^2 - 42x + 144 = \underline{\hspace{2cm}} (\quad)$$

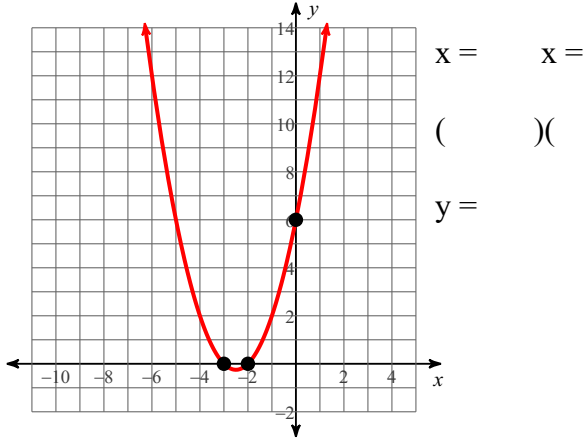
$$= \underline{\hspace{2cm}} (\quad)(\quad)$$

$$22) 5x^2 + 20x - 300 = \underline{\hspace{2cm}} (\quad)$$

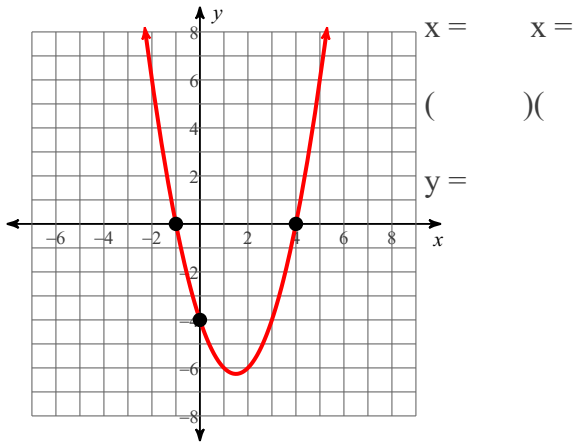
$$= \underline{\hspace{2cm}} (\quad)(\quad)$$

Give the formula.

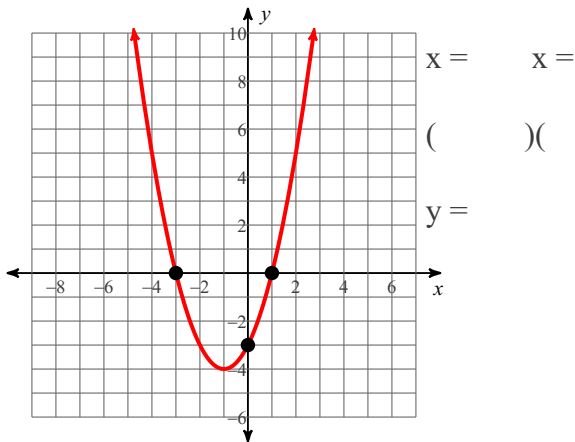
23)



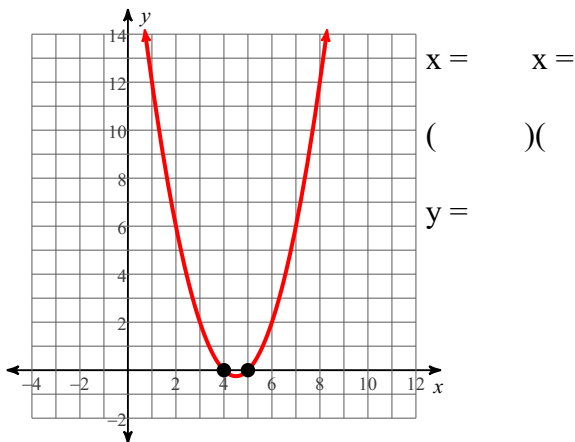
25)



27)

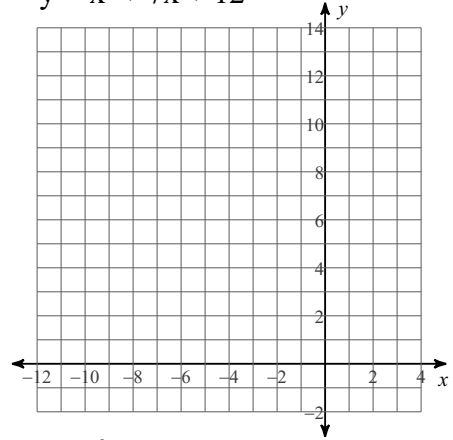


29)

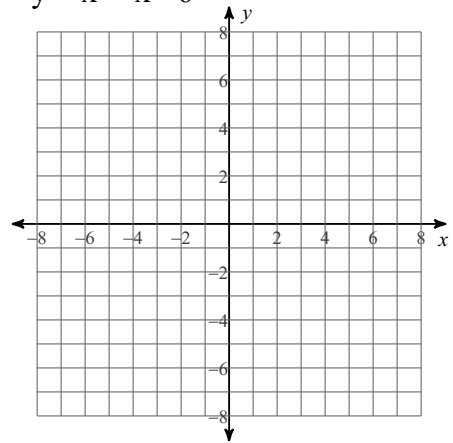


Create the parabola.

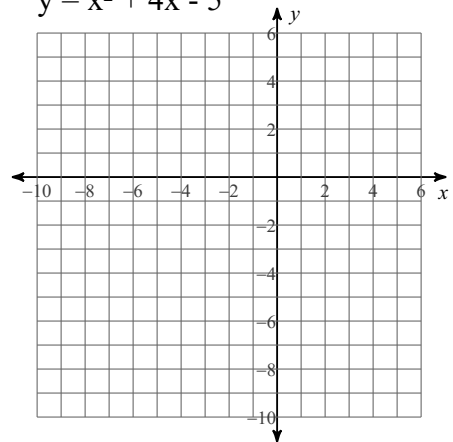
24) $y = x^2 + 7x + 12$



26) $y = x^2 - x - 6$



28) $y = x^2 + 4x - 5$



30) $y = x^2 - 5x + 6$

