

CHAPTER 3

Polynomial Functions

Getting Started, p. 122

1. a) $2x^2(3x - 11)$

$6x^3 - 22x^2$

b) $(x - 4)(x + 6)$

$x^2 + 6x - 4x - 24$

$x^2 + 2x - 24$

c) $4x(2x - 5)(3x + 2)$

$(8x^2 - 20x)(3x + 2)$

$24x^3 + 16x^2 - 60x^2 - 40x$

$24x^3 - 44x^2 - 40x$

d) $(5x - 4)(x^2 + 7x - 8)$

$5x^3 + 35x^2 - 40x - 4x^2 - 28x + 32$

$5x^3 + 31x^2 - 68x + 32$

2. a) $x^2 + 3x - 28$

$(x + 7)(x - 4)$

b) $2x^2 - 18x + 28$

$2(x^2 - 9x + 14)$

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

3. a) $3x + 7 = x - 5$

$3x + 7 - x - 7 = x - 5 - x - 7$

$2x = -12$

$x = -6$

b) $(x + 3)(2x - 9) = 0$

$x + 3 = 0$ and $2x - 9 = 0$

$x = -3$ and $x = \frac{9}{2}$

$x = -3, 4.5$

c) $x^2 + 11x + 24 = 0$

$(x + 3)(x + 8) = 0$

$x + 3 = 0$ and $x + 8 = 0$

$x = -3$ $x = -8$

d) $6x^2 + 22x = 8$

$6x^2 + 22x - 8 = 0$

$3x^2 + 11x - 4 = 0$

$(3x - 1)(x + 4) = 0$

$3x - 1 = 0$ and $x + 4 = 0$

$x = \frac{1}{3}$ $x = -4$

4. a) $y = \frac{1}{4}(x - 3)^2 + 9$

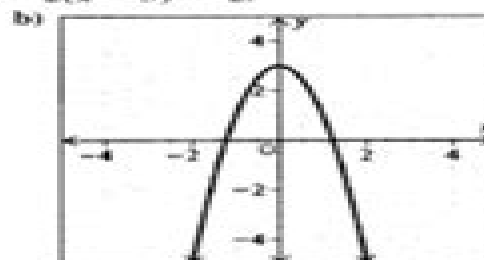
vertical compression by a factor of $\frac{1}{4}$, horizontal translation 3 units to the right; vertical translation 9 units up

b) $y = \left(\frac{1}{2}x\right)^2 - 7$

vertical compression by a factor of $\frac{1}{4}$, vertical translation 7 units down



Working from the parent function $y = x^2$, the vertex is at $(5, -2)$. It opens upward. It is vertically stretched by a factor of 2. The equation is $y = 2(x - 5)^2 - 2$.



Working from the parent function $y = x^2$, the vertex is at $(0, 3)$. It opens downward. It is vertically stretched by a factor of 2. The equation is $y = -2x^2 + 3$.

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