

SM3-A HW #11-9 (Review Quadratic Equations)

Factor each completely.

1) $a^2 - 6a$

2) $n^2 - 7n + 10$

3) $n^2 - 6n - 16$

4) $x^2 + 14x + 48$

5) $6x^2 - 55x + 9$

6) $6b^2 - 19b + 14$

7) $9r^2 - 34r - 8$

8) $9x^2 - 8x - 20$

9) $4x^2 - 23x + 28$

10) $6m^2 - 59m - 10$

a) Convert to intercept form**b) List the x-intercepts.**

11) $x^2 + 11x + 28 = 0$

12) $x^2 - 7x + 10 = 0$

a) Convert the following equations to vertex form.**b) Solve the resulting equations by taking square roots.**

13) $x^2 - 8x - 23 = 0$

14) $x^2 + 10x + 4 = 0$

15) $x^2 + 4x - 20 = 0$

16) $x^2 + 12x - 54 = 0$