

1) Solve by factoring:

a.       $x^2 - 13x + 40 = 0$

b.       $3x^2 - 8x = 0$

c.       $x^2 - 49 = 0$

2) Solve by taking roots:

a.       $x^2 = 24$

b.       $3x^2 = -18$

c.       $7x^2 + 10 = 0$

d.       $(x - 2)^2 = -121$

3) Solve by completing the square:  $x^2 - 8x - 1 = 0$

4) State the quadratic formula for solving  $ax^2 + bx + c = 0$

5) Solve using the quadratic formula:

a.  $2x^2 - 3x - 7 = 0$

b.  $5x^2 + x + 10 = 0$

c.  $3.1x^2 - 4.6x - 11.7 = 0$