Solve Quadratics

Solve each equation. Some of them may have radicals in their solutions.

a) $3x^2 = 9$

b) $(x - 3)^2 = 1$

c) $4(x - 3)^2 = 1$

d) $2(x - 3)^2 = 12$

e) $5b^2 - 25 = 0$

f) $(x - 2)^2 = 9$

Solve Quadratics

Solve each equation. Some of them may have radicals in their solutions.

a) $3x^2 = 9$

$3x^2 = 9$

$x^2 = 3$

$x = \pm\sqrt{3}$

b) $(x - 3)^2 = 1$

$(x - 3) = \pm 1$

$x = 3 \pm 1$

$x = 2$ or 4

c) $4(x - 3)^2 = 1$

$(x - 3)^2 = \frac{1}{4}$

$(x - 3) = \pm \frac{1}{2}$

$x = 3 \pm \frac{1}{2}$

$x = \frac{7}{2}$ or $\frac{5}{2}$

d) $2(x - 3)^2 = 12$

$(x - 3)^2 = 6$

$(x - 3) = \pm\sqrt{6}$

$x = 3 \pm \sqrt{6}$

e) $5b^2 - 25 = 0$

$5b^2 = 25$

$b^2 = 5$

$b = \pm\sqrt{5}$

f) $(x - 2)^2 = 9$

$(x - 2) = \pm 3$

$x = 2 \pm 3 = -1 \; or \; 5$