(e) $0 = 9x^2 - 25$

$x = \frac{-0 \pm \sqrt{0^2 - 4(9)(-25)}}{2 \cdot 9}$

$x = \frac{\pm\sqrt{900}}{18} = \frac{\pm 30}{18}$

$x = 1\frac{2}{3}, x = -1\frac{2}{3}$

$0 = 25x^2 - 1$

$x = \frac{-0 \pm \sqrt{0^2 - 4(25)(-1)}}{2(25)}$

$x = \frac{\pm\sqrt{100}}{50} = \frac{\pm 10}{50}$

$x = \frac{1}{5}, x = -\frac{1}{5}$

$0 = x^2 - 16$

$x = \frac{0 \pm \sqrt{0^2 - 4(1)(-16)}}{2(1)}$

$x = \frac{\pm\sqrt{64}}{2} = \frac{\pm 8}{2}$

$x = 4, x = -4$

(f) $x^2 + 5x - 14 = 0$

$x = \frac{-5 \pm \sqrt{5^2 - 4(1)(-14)}}{2(1)}$

$x = \frac{-5 \pm \sqrt{25 + 56}}{2}$

$x = \frac{-5 \pm \sqrt{81}}{2} = \frac{-5 \pm 9}{2}$

$x = 2, x = -7$

$0 = 2x^2 - 19x + 24$

$x = \frac{-(-19) \pm \sqrt{(-19)^2 - 4(2)(24)}}{2(2)}$

$x = \frac{19 \pm \sqrt{361 - 192}}{4}$

$x = \frac{19 \pm \sqrt{169}}{4} = \frac{19 \pm 13}{4}$

$x = 8, x = \frac{3}{2}$

$0 = 7x^2 + 37x - 30$

$x = \frac{-37 \pm \sqrt{37^2 - 4(7)(-30)}}{2(7)}$

$x = \frac{-37 \pm \sqrt{1369 + 840}}{14}$

$x = \frac{-37 \pm \sqrt{2209}}{14} = \frac{-37 \pm 47}{14}$

$x = -6, x = \frac{5}{7}$

(g) $0 = 4x^2 - 28x + 49$

$x = \frac{-(-28) \pm \sqrt{(-28)^2 - 4(4)(49)}}{2(4)}$

$x = \frac{28 \pm \sqrt{784 - 784}}{8}$

$x = \frac{28}{8}$

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

$0 = x^2 + 10x + 25$

$x = \frac{-10 \pm \sqrt{10^2 - 4(1)25}}{2(1)}$

$x = \frac{-10 \pm \sqrt{100 - 100}}{2}$

$x = \frac{-10}{2}$

$x = -5$

$0 = 9x^2 + 6x + 1$

$x = \frac{-6 \pm \sqrt{6^2 - 4(9)1}}{2(9)}$

$x = \frac{-6 \pm \sqrt{36 - 36}}{18}$

$x = -\frac{6}{18}$

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