

<p>7. $n(x) = 2x^2 - 20x + 50$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>8. $p(x) = 4x^2 + 3x - 2$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>9. $r(x) = -x^2 - 2x - 1$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>
<p>10. $t(x) = 2x^2 + 8x - 24$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>11. $v(x) = -5x^2 + 8x$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>12. $w(x) = x^2 - 6x + 7$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>
<p>13. $f(x) = 2x^2 - 11x - 21$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>14. $g(x) = x^2 - 6x - 5$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>	<p>15. $h(x) = -3x^2 + 6x - 3$</p> <p>Factored Form:</p> <p>Roots:</p> <p>Roots as points:</p>

Factoring to Determine Roots Answers

1. Factored Form: $f(x) = 2(x + 1)(x - 7)$	2. Factored Form: $g(x) = (x + 8)(x - 1)$	3. Factored Form: $h(x) = 4\left(x + \frac{3}{2}\right)\left(x - \frac{3}{2}\right)$
Roots: $x = -1$ or $x = 7$	Roots: $x = -8$ or $x = 1$	Roots: $x = -\frac{3}{2}$ or $x = \frac{3}{2}$
Roots as points: $(-1, 0)$ or $(7, 0)$	Roots as points: $(-8, 0)$ $(1, 0)$	Roots as points: $\left(-\frac{3}{2}, 0\right)$ $\left(\frac{3}{2}, 0\right)$
4. Factored Form: Not Factorable	5. Factored Form: $k(x) = (x + 3)(x + 3)$	6. Factored Form: $m(x) = -(x + 5)(x - 4)$
	Roots: $x = -3$	Roots: $x = -5$ or $x = 4$
	Roots as points: $(-3, 0)$	Roots as points: $(-5, 0)$ $(4, 0)$
7. Factored Form: $n(x) = 2(x - 5)(x - 5)$	8. Factored Form: Not Factorable	9. Factored Form: $r(x) = -(x + 1)(x + 1)$
Roots: $x = 5$		Roots: $x = -1$
Roots as points: $(5, 0)$		Roots as points: $(-1, 0)$
10. Factored Form: $t(x) = 2(x + 6)(x - 2)$	11. Factored Form: $v(x) = -5x\left(x - \frac{8}{5}\right)$	12. Factored Form: Not Factorable
Roots: $x = -6$ or $x = 2$	Roots: $x = 0$ or $x = \frac{8}{5}$	
Roots as points: $(-6, 0)$ $(2, 0)$	Roots as points: $(0, 0)$ $\left(\frac{8}{5}, 0\right)$	
13. Factored Form: $f(x) = 2\left(x + \frac{3}{2}\right)(x - 7)$	14. Factored Form: Not Factorable	15. Factored Form: $h(x) = -3(x - 1)(x - 1)$
Roots: $x = -\frac{3}{2}$ or $x = 7$		Roots: $x = 1$
Roots as points: $\left(\frac{3}{2}, 0\right)$ $(7, 0)$		Roots as points: $(1, 0)$

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Roots as points: $\left(\frac{3}{2}, 0\right)$ $(7, 0)$		Roots as points: $(1, 0)$