

Quadratic Functions Review

Factoring to Solve Equations with $a \neq 1$

Factor if needed, then solve the equation.

1. $6r^2 + r - 5 = 0$

2. $56z^2 + 2z - 30 = 0$

3. $3p^2 + 36p + 81 = 0$

4. $6c^2 + 15c = 4c - 4$

5. $9z^2 = 12z + 12$

6. $10a^2 + 15a = -6a - 8$

Find the solution to the word problem below.

7. Brad tossed a baseball in the air from a height of 6 feet with an initial upward velocity of 14 ft/sec. Enrique caught the ball on its way down at a point 4 feet above the ground. How long was the ball in the air before Enrique caught it?