

14.1 Homework

Date _____ Period _____

Solve each equation by taking square roots.

1) $1 - 3p^2 = -107$

2) $-8 - 6x^2 = -320$

Factor each completely.

3) $x^2 - 7x$

4) $3x^2 - 6x - 24$

$$5) k^2 - 81$$

$$6) x^2 + x - 90$$

$$7) 2r^2 + 11r - 21$$

$$8) 2x^2 - 11x + 9$$

$$9) 14x^2 + 58x + 8$$

$$10) 7r^2 - 13r - 24$$

Answers to 14.1 Homework

1) $\{6, -6\}$

5) $(k-9)(k+9)$

9) $2(7x+1)(x+4)$

2) $\{2\sqrt{13}, -2\sqrt{13}\}$

6) $(x+10)(x-9)$

10) $(7r+8)(r-3)$

3) $x(x-7)$

7) $(2r-3)(r+7)$

4) $3(x+2)(x-4)$

8) $(2x-9)(x-1)$