

Factoring Retest Practice

Date _____ Period _____

Factor each completely.

1) $49x^3 + 35x^2 - 56x - 40$

2) $25x^2 - 81$

3) $r^2 - 5r - 24$

4) $4p^2 - 12p - 72$

5) $7x^2 + 16x - 15$

6) $3k^2 - 4k - 15$

7) $10n^2 - 9n - 40$

Solve each equation by factoring.

8) $n^2 - 6n = 7$

9) $3x^2 + 22x = -35$

Quiz Practice: Simplify.

10) $\sqrt{640}$

11) $\sqrt{60}$

12) $\sqrt{72}$

13) $\sqrt{726}$

Factoring Retest Practice

Date _____ Period _____

Factor each completely.

1) $49x^3 + 35x^2 - 56x - 40$

$(7x^2 - 8)(7x + 5)$

2) $25x^2 - 81$

$(5x + 9)(5x - 9)$

3) $r^2 - 5r - 24$

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

4) $4p^2 - 12p - 72$

$4(p - 6)(p + 3)$

5) $7x^2 + 16x - 15$

$(7x - 5)(x + 3)$

6) $3k^2 - 4k - 15$

$(3k + 5)(k - 3)$

7) $10n^2 - 9n - 40$

$(2n - 5)(5n + 8)$

Solve each equation by factoring.

8) $n^2 - 6n = 7$

$\{-1, 7\}$

9) $3x^2 + 22x = -35$

$\left\{-\frac{7}{3}, -5\right\}$

Quiz Practice: Simplify.

10) $\sqrt{640}$

$8\sqrt{10}$

11) $\sqrt{60}$

$2\sqrt{15}$

12) $\sqrt{72}$

$6\sqrt{2}$

13) $\sqrt{726}$

$11\sqrt{6}$