

Practice 13.2

Name _____

(13.2) Factor the trinomial.

1) $x^2 + 11x + 18$

2) $n^2 + 2n - 63$

Factor the trinomial completely.

3) $2x^2 - 10x + 12$

4) $3x^4 + 6x^3 - 45x^2$

5) $4x^4 + 12x^3 - 160x^2$

6) $72 - 17x + x^2$

Factor the trinomial.

7) $8 - 7x - x^2$

8) $30 - x^2 + 7x$

Solve.

9) A rectangle has an area of $x^2 + 11x + 28$. Find one possibility for its width and its length.

10) Write a polynomial in factored form that represents the total area of the figure.

x^2	$5x$
$7x$	35

Answer Key

Testname: WKS_13.2

- 1) $(x + 2)(x + 9)$
- 2) $(n + 9)(n - 7)$
- 3) $2(x - 3)(x - 2)$
- 4) $3x^2(x + 5)(x - 3)$
- 5) $4x^2(x - 5)(x + 8)$
- 6) $(x - 8)(x - 9)$
- 7) $(8 + x)(1 - x)$
- 8) $(10 - x)(3 + x)$
- 9) $x + 7, x + 4$
- 10) $(x + 5)(x + 7)$