

Recap 8

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Factor completely.

1. $3x^2 + 15x$

2. $x^2 + 10x - 24$

3. $8x^2 - 18y^2$

4. $6x^2 - 5x - 6$





Factor completely.

1.
$$3x^2 + 15x = 3x (x + 5)$$

chule:
$$3x(x+5)$$

= $3x^2 + 15x$

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3.
$$8x^2 - 18y^2$$

$$= 2(4x^{2}-9y^{2})$$

$$= 2(2x-3y)(2x+3y)$$

clude:
$$2(2x-3y)(2x+3y)$$

= $2(4x^2+4y-6xy-9y^2)$
= $2(4x^2-9y^2)$
= $8x^2-18y^2$

4.
$$6x^2 - 5x - 6$$

$$AC = 6(-6) = -36$$

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

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

cluek:
$$(3x+2)(2x-3)$$

= $6x^2-9x+4x-6$
= $6x^2-5x-6$