

Name : \_\_\_\_\_

# Pre-Calculus - Factoring Worksheet

Factor each completely if possible.

$$5x^2 + 8x - 4$$

$$x^2 - 100$$

$$(4a + b)^2 - 25c^2$$

$$81b^2 - 36$$

$$4a^2 + 16a + 16$$

$$12x^3 - 31x^2 + 20x$$

$$x^2 - 9x + 20$$

$$(5x - 6)^2 - (4x - 3)^2$$

$$(3x + y)^2 - 9$$

$$x^2 + 10x - 11$$

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## Answers

$5x^2 + 8x - 4$	$x^2 - 100$
$(5x - 2)(x + 2)$	$(x - 10)(x + 10)$
$(4a + b)^2 - 25c^2$	$81b^2 - 36$
$(4a + b - 5c)(4a + b + 5c)$	$9(3b - 4)(3b + 2)$
$4a^2 + 16a + 16$	$12x^3 - 31x^2 + 20x$
$4(a + 2)^2$	$x(4x - 5)(3x - 4)$
$x^2 - 9x + 20$	$(5x - 6)^2 - (4x - 3)^2$
$(x - 5)(x - 4)$	$9(x - 1)(x - 3)$
$(3x + y)^2 - 9$	$x^2 + 10x - 11$
$(3x + y - 3)(3x + y + 3)$	$(x - 1)(x + 11)$