
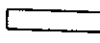




3. Factor each trinomial.



a) $2x^2 + 15x + 7$

Use algebra tiles to factor.

Sketch the tiles.

Use , , and .

Start with .

Arrange  so there is space to fit .

So, $2x^2 + 15x + 7 =$ _____

b) $5m^2 + 16m + 3$

$5m^2 + 16m + 3$

The 1st term is _____.
Its factors are: _____ \times _____

The 3rd term is _____.
Its factors are: _____ \times _____

Write all possible binomials.

Multiply to find which product has the term $16m$.

$(\text{ } + \text{ })(\text{ } + \text{ })$ $= \text{ } + \text{ } + \text{ } + \text{ }$ $= \text{ } + \text{ } + \text{ }$	$(\text{ } + \text{ })(\text{ } + \text{ })$ $= \text{ } + \text{ } + \text{ } + \text{ }$ $= \text{ } + \text{ } + \text{ }$
---	---

So, $5m^2 + 16m + 3 =$ _____

4. Factor each trinomial.

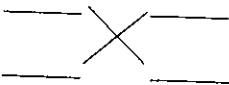
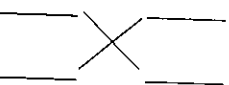
a) $3x^2 - 5x - 2$

$3x^2 - 5x - 2$

The 1st term is _____.
The factors of _____ are:
_____ and _____

The 3rd term is _____.
The factors of _____ are:
_____ and _____; _____ and _____

Write each pair of factors of _____ next to the pair of factors of _____.
Find the products.

	$(\text{ } \times \text{ }) + [\text{ } \times (\text{ })] = \text{ } = \text{ }$
	$[\text{ } \times (\text{ })] + (\text{ } \times \text{ }) = \text{ } = \text{ }$

Stop when you get _____
as the sum of the
products.