

What you know (part 1)

Factor each completely.

1)  $3n^2 - n - 30$

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

3)  $6n^2 + 37n + 6$

4)  $10n^2 + 7n - 6$

What you know (part 2)

Solve each equation by factoring.

1)  $7x^2 - 37x - 30 = 0$

2)  $2a^2 + 7a + 6 = 0$

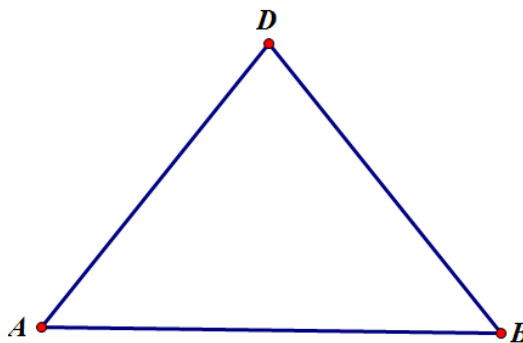
3)  $3x^2 + 4x - 15 = 0$

4)  $2n^2 - 5n - 23 = 2$

Challenge!

5)  $12v^2 = 32 + 20v$

Example: The height of a triangle is 4 inches less than the length of the base. The area of the triangle is  $30 \text{ in.}^2$ . Find the height and the base.



### Now You Try...

John's Garden is rectangular and it is 12 ft. longer than it is wide.

The area of John's garden is 28 ft.

Find the length and width of John's Garden.