

6.3.43

Factor the trinomial completely.

$$84s^2 - 38sr - 70r^2$$

$$84s^2 - 38sr - 70r^2 = \square$$

GCF first

$$= 2(42s^2 - 19sr - 35r^2)$$

Factors
of
42:

1, 42
2, 21
3, 14
6, 7

↳ 1, 35
5, 7

Factors
of 35

Guess and check

$$(6s - 5r)(7s - 7r)$$

has GCF X

$$(6s - 7r)(7s + 5r)$$

$$30rs - 49rs = -19rs \quad \checkmark$$

$$= \boxed{2(6s - 7r)(7s + 5r)}$$