

Simple Trinomial
Add multiply
$$-5 \times 1 = -36$$

 $p^{2}+3p-35=0$ $-5+1=3$
 $(p-5)(p+1)=0$
 $p-5=0$ $p+1=0$
 $p=5$ $p=-1$

Common factor
(a)
$$y^{3}-3y=0$$
 (b) $3m^{3}+3m=0$
(c) $(y-3)=0$ $m(3m+3)=0$
 $y=0$ $|y-3=0$ $m=0$ $|3m+3=0$
 $3m=-3$
 $m=-3$
(b) $2t^{3}+11t+5=0$ $1 \times 10 = 10$
($3t^{3}+11t+5=0$ $1 \times 10 = 10$
($3t^{3}+11t+5=0$ $1 \pm 10 = 1$
($3t^{3}+11t+5=0$ 1 ± 10

(a)
$$10y^{3} - 16y = -6$$

 $10y^{3} - 16y + 6 = 0$
 $(10y^{3} - 16y + 6) = 0$
 $(10y^{3} - 6y(10y + 6) = 0$
 $ay(5y - 3) - 2(5y - 3) = 0$
 $(5y - 3) - 2(5y - 3) = 0$
 $(5y - 3)(3y - 3)$
 $5y - 3 = 0$ | $3y - 3 = 0$
 $5y = 3$ | $3y = 3$
 $y = 3/5$ $y = 1$













