Factor each completely.

17) $10x^2 + 19x - 2$

$= 10x^2 - 1x + 20x - 2$

Dashboard

Factor each completely.

18) $4m^2 + 15m - 25$

$\times$ -100

$+$ $+15$

$-5, 20$

$= 4m^2 - 5m + 20m - 25$

m $\quad$ 5

$= m(4m - 5) + 5(4m - 5)$

$= (4m - 5)(m + 5)$

Factor each completely.

19) $9x^2 + 64x - 64$

$= 9x^2 + 72x - 8x - 64$

$9x \qquad -8$

$= 9x(x+8) - 8(x+8)$

$= (x+8)(9x-8)$

$x \quad -576$

$+ \quad 64$

1, 576
2, 288
3, 192
4, 144
6, 96
-8, 72

Factor each completely.

20) $4b^2 - 16b - 9$

$\otimes -36$

$\oplus -16$

$2, -18$

$= 4b^2 + 2b - 18b - 9$

$2b \quad -9$

$= 2b(2b+1) - 9(2b+1)$

$= (2b+1)(2b-9)$