

wed.
9-26-18

Factoring Problems

(ex) $\frac{9}{5}y(y+1) - 3(y+1)$

GCF: $(y+1)$

$(y+1) \left(\frac{9}{5}y - 3 \right)$ $\frac{3 \times 5}{1 \times 5} \frac{15}{5}$

$(y+1) \left(\frac{9}{5}y - \frac{15}{5} \right)$

GCF: $\frac{1}{5}$

$(y+1) \left(\frac{1}{5} \right) (9y - 15)$

GCF: 3

$(y+1) \left(\frac{1}{5} \right) (3) (3y - 5)$

$(y+1) \left(\frac{3}{5} \right) (3y - 5)$

(ex) $50 - 162z^2$

GCF: 2

$2(25 - 81z^2)$

Difference of sq.

$2(5+9z)(5-9z)$

(ex) $(x-5)^2 - 9$

Difference of sq.

$((x-5)+3)((x-5)-3)$

$(x-5+3)(x-5-3)$

$(x-2)(x-8)$