

FACTOR BY GROUPING

- IF YOU HAVE 4 TERMS
- IF YOU HAVE GCFs FOR EACH "PAIRS" OR "GROUPS"

$$\begin{array}{cccc} (40r^3 + 56r^2) & (-25r - 35) \\ \underline{8r^2} & \underline{8r^2} & \underline{-5} & \underline{-5} \end{array}$$

$$\underline{8r^2(5r+7)} - \underline{5(5r+7)}$$

$$\underline{(5r+7)(8r^2-5)} \text{ OR } (8r^2-5)(5r+7)$$

- ① MAKE GROUPS
- ② TAKE GCF OUT OF FIRST GROUP AND TAKE GCF OUT OF SECOND GROUP

- ③ YOUR () GROUPS SHOULD BE EXACTLY THE SAME. THIS REPRESENTS THE GCF FOR THE ENTIRE PROBLEM

- ④ REWRITE YOUR FINAL ANSWER AS 2 BINOMIALS
(GCF) (TERMS LEFT OVER!)