## QUIZ 1 - MATH 112 YOUR NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find an equation for the line  $\ell$  that passes trough the point (-5, -2) and is perpendicular to the line with equation 3y + x = 17. Then find the *y*-intercept of  $\ell$ .

2. Evaluate the following expressions:

(a) 
$$\left(\frac{1}{81}\right)^{-3/4} =$$

(b) 
$$7 \cdot \left(\frac{49}{4}\right)^{-3/2} =$$