

$$3) (0.73 - 0.47) \pm 1.96 \sqrt{\frac{0.73(1-0.73)}{800} + \frac{0.47(1-0.47)}{2253}}$$

$$.26 \pm 0.037$$

$$(0.223, 0.297)$$

4) We are 95% Confident that the true difference between the proportion of all OS teens and adults who use Social networking lies between 0.223 and 0.297