

Practice Set 10 Continuous Normal Probability Distributions

- I. Sales commissions paid by Darin's Music Emporium are normally distributed with a mean of \$25,000 and a standard deviation of \$5,000. Solve the following being sure to draw a graph of each distribution.

A. $P(\$15,000 \leq x < \$25,000)$

Note: This question is read "What is the probability that \$15,000 is less than or equal to x which is less than \$25,000?"

B. $P(\$20,000 \leq x < \$30,000)$

C. $P(x \geq \$37,550)$

D. $P(\$27,500 \leq x < \$32,500)$