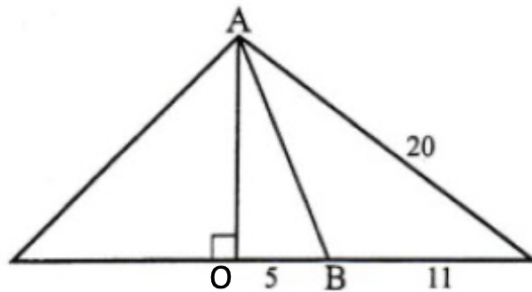


1. Solve equation: $|3x - 7| = 2$

2. Simplify $\frac{x}{(x+7)} - \frac{x}{(x-7)} = \frac{?}{?}$

3. Solve equation $\frac{x^2-1}{x^2-2} = 5$

4. Find AB. *Hint: Use Pythagorean theorem to find AO, then find AB*



5. (a) Roll two dice. What is the probability that both show the same face?
(b) Roll three dice. What is the probability that exactly two of them show the same face?
What is the probability that at least two of them show the same face?
(c) Roll four dice. What is the probability that **no two** show the same face (that is, all faces are different)?

6. In how many ways can you arrange 4 people in a row of 4 chairs?

7. Compare

$$5 \dots \sqrt{20}$$

$$17 \dots \sqrt{299}$$

8. Solve and graph the solution on a number line:

a) $4x + 5 \leq x + 11$

b) $(-3, 3] \cap [2, 8)$