

1. Which of the following is equivalent to the following expression? $4(x^2 - 3) - 2(x^2 + 5)$

- A) $2x^2 - 22$ B) $2x^2 - 2$ C) $2x^2 + 2$ D) $2x^4 - 22$

2. Prices of 14 Different Cars

Type of Car	Priced \leq \$25,000	Priced $>$ \$25,000	Total
Nonhybrid	5	3	8
Hybrid	2	4	6
Total	7	7	14

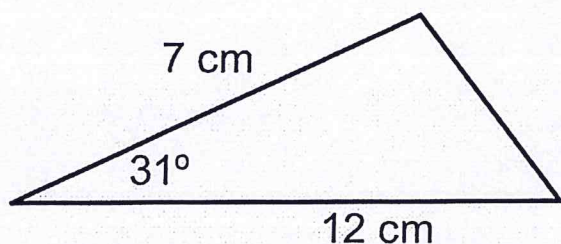
The table above shows information about 14 cars listed for sale on a website. If one of the cars listed for sale is selected at random, what is the probability that the car selected will be a hybrid car priced no more than \$25,000?

- A) $\frac{1}{7}$ B) $\frac{2}{7}$ C) $\frac{1}{3}$ D) $\frac{4}{7}$

3. During the first month of sales, a company sold 1,300,000 units of a certain type of smartphone. During the same month, 15% of the units sold were returned. If sales and the return rate remain the same for each of the next 5 months, about how many units of this smartphone will be returned to the company during this 6-month period?

- A) 195,000 B) 975,000 C) 1,170,000 D) 6,630,000

4. Find the area of this triangle to the nearest tenth.



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$$4x^2 - 12 - 2x^2 - 10$$

$$2x^2 - 22$$

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$$\frac{2}{14} = \frac{1}{7}$$

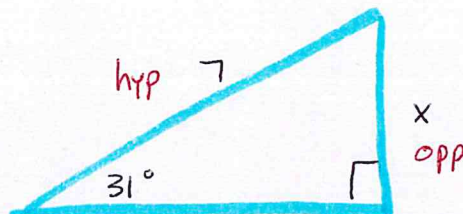
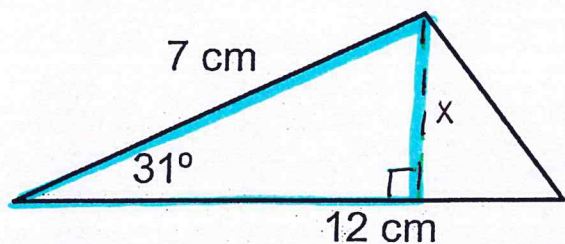
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$$\text{Returned in 1 month} = (.15)(1,300,000) = 195,000$$

$$\text{Returned in 6 months} = (6)(195,000) = 1,170,000$$

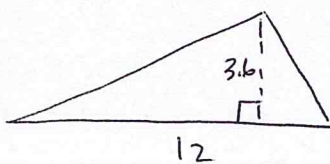
4. Find the area of this triangle to the nearest tenth.



SOH CAH TOA

$$\sin 31^\circ = \frac{x}{7}$$

$$x = 3.6$$



$$A = \frac{1}{2}(12)(3.6)$$

$$A = 21.6 \text{ cm}^2$$