6. The price of buying $x$ pairs of Brand B socks at Shoeway is shown by the graph below.

The advertisement shows the cost of buying several pairs of the same brand of socks at Foot World.

A. Determine the costs of buying 1, 2, 3, and 4 pairs of socks at each store. Show your work.

B. Explain when a customer should buy socks at Shoeway and when a customer should buy socks at Foot World.
4. The table represents the linear function whose equation is \( c = 15 + 20x \). It shows the total cost, \( y \), of renting a wallpaper hanger from a home improvement store for \( x \) days.

<table>
<thead>
<tr>
<th>Number of Days (( x ))</th>
<th>Total Charge in Dollars (( y ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35</td>
</tr>
<tr>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>3</td>
<td>75</td>
</tr>
<tr>
<td>4</td>
<td>95</td>
</tr>
</tbody>
</table>

What is the dependent variable in this situation?
A. 15  
B. 20  
C. \( x \)  
D. \( y \)

5. Which equation does not represent a linear function?
A. \( y = 3x \)  
B. \( y = \frac{1}{3}x \)  
C. \( y = 3x^2 \)  
D. \( y = x - 3 \)

6. What is the rate of change for the function graphed below?

A. \( \frac{4}{3} \)  
B. \( \frac{3}{4} \)  
C. \( -\frac{3}{4} \)  
D. \( -\frac{4}{3} \)

7. Which graph does not represent a function?
A. 
B. 
C. 
D.
6. The price of buying \( x \) pairs of Brand B socks at Shoeway is shown by the graph below. The advertisement shows the cost of buying several pairs of the same brand of socks at Foot World.

![Graph showing the cost of Brand B socks at Shoeway.]

**Foot World**
Buy 1 pair of Brand B socks for $3.00. Pay $1.50 for each pair after that.

\[\begin{array}{|c|c|c|}
\hline
\text{Number of Pairs of Socks (x)} & \text{Price at Shoeway (y)} & \text{Price at Foot World (y)} \\
\hline
1 & $2.50 & $3.00 \\
2 & $5.00 & $4.50 \\
3 & $7.50 & $6.00 \\
4 & $10.00 & $7.50 \\
\hline
\end{array}\]

A. Determine the costs of buying 1, 2, 3, and 4 pairs of socks at each store. Show your work.

B. Explain when a customer should buy socks at Shoeway and when a customer should buy socks at Foot World.

**Shoeway:** For only 1 pair of socks it's cheaper.

**Foot World:** For 2, 3, 4 or more pairs of socks it's cheaper.
4. The table represents the linear function whose equation is \( c = 15 + 20x \). It shows the total cost, \( y \), of renting a wallpaper hanger from a home improvement store for \( x \) days.

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