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1. Given \( x = \{(2, 7), (3, 9), (5, 13), (0, 3)\} \) be a function from \( \mathbb{Z} \) to \( \mathbb{Z} \) defined by \( f(x) = ax + b \) for some integral \( a \) and \( b \). What are the values of \( a \) and \( b \)?

2. Let \( F: \mathbb{R} \rightarrow \mathbb{R} \) be a function defined by \( F(x) = 7x + 4 \). Find the value of \( F^{-1}(x) \).

3. If \( F(x) = \sqrt{1 - x^2} \), then check if \( f(xy) = f(x)f(y) \) is true or false?

4. If \( f^{-1}(x) = \frac{3x + 2}{5} \) then find \( f(x) \).

5. If \( f(x) = \sqrt{25 - x^2} \) then \( f(\sqrt{5}) = \) __________.

6. If \( R \) is a relation from set \( A \) to the set \( B \) and \( S \) is a relation from \( B \) to \( C \), then the relation \( S \circ R \) is a relation from __________.
7. Which of the above is many to many relations?
   (a) f  (b) g  (c) h  (d) q

8. Which of the above is one to one relation?
   (a) f  (b) g  (c) h  (d) q

9. Which of the above is one to many relation?
   (a) f  (b) g  (c) h  (d) q

10. If \( A = \{1, 2, 3\} \), the number of symmetric relations in \( A \) is
    (a) 3  (b) 8  (c) 328  (d) 63
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- Kirk Riley

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- Barbara Cabrera

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>( A = 2, \ b = 3 )</td>
</tr>
<tr>
<td>2</td>
<td>( \frac{x - 4}{7} )</td>
</tr>
<tr>
<td>3</td>
<td>False</td>
</tr>
<tr>
<td>4</td>
<td>( f(x) = \frac{5x - 2}{3} )</td>
</tr>
<tr>
<td>5</td>
<td>( 2\sqrt{5} )</td>
</tr>
<tr>
<td>6</td>
<td>Set ( A ) to set ( C )</td>
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<td>7)</td>
<td>(d) q</td>
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<tr>
<td>8)</td>
<td>(a) f</td>
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<td>9)</td>
<td>(c) h</td>
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<tr>
<td>10)</td>
<td>(a) 3</td>
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