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Relation and Function Worksheets

1. If $F(x) = ax + b$, where a and b are integers, $f(-1) = 5$ and $F(-3) = -2$ then a and b are equal to _____.
2. If F from $F: \mathbb{R} \rightarrow \mathbb{R}$, $g: \mathbb{R} \rightarrow \mathbb{R}$, are such that $F(x) = x^2$, $g(x) = x + 1$ and $h(x) = \log x$, then find the value of $\text{gof}(2)$.
3. If $f(x) = 1/x$ $g(x) = x/\sqrt{1+x^2}$ then $(\text{fog})(x) =$ _____.



4. If $n(A) = 3$, $n(B) = 4$ then $n(A \times A \times B)$ is equal to _____.
5. Let $A = \{1, 2, 3\}$. The total number of distinct relations that can be defined over A , is
(a) 2^9 (b) 6 (c) 8 (d) None of these
6. This relation \perp is
(a) Reflexive (b) symmetric (c) transitive (d) equivalence

7. The relation $>$ is
(a) Reflexive (b) symmetric (c) transitive (d) equivalence
8. Inverse relation of $\{(1, 2), (1, 3), (2, 3)\}$ is
(a) $\{(1, 2), (1, 3), (2, 3)\}$ (b) $\{(2, 1), (3, 1), (3, 2)\}$ (c) $\{(-1, -2), (-1, -3), (-2, -3)\}$
9. Let $F: \mathbb{R} \rightarrow \mathbb{R}$ be a function defined by $F(x) = 2x - 3$. Then, $F^{-1} =$ _____.
10. Let A and B be two sets such that $n(A \times B) = 6$ if $A \times B = \{(3, 1), (7, 1), (8, 1), (3, 4), (7, 4), (8, 4)\}$, then $B =$ _____.

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$A = 2 \quad b = 7$
2)	5
3)	$\sqrt{(1 + x^2)}/x$
4)	36
5)	(a)
6)	(b) symmetric

7)	(c) transitive
8)	(b)
9)	$(x + 3)/2$
10)	(1, 4)