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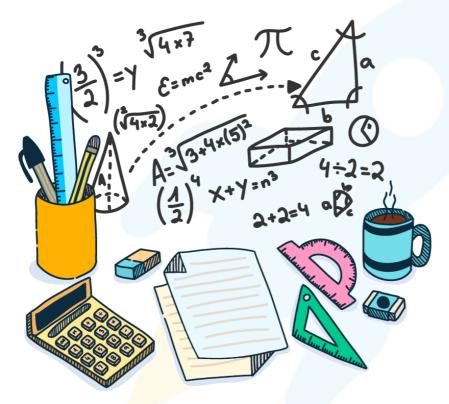
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RELATION AND FUNCTION WORKSHEET

- 1. If $A = \{1, 2, 3, 4, 5\}$ and $B = \{a, b, c\}$, then $n(B \times A) = \{a, b, c\}$ (b) 3 (c) 15 (d) 125
- 2. The relation "daughter of" is a ______
 relationship.
- (a) Reflexive (b)symmetric (c)transitive (d) none



- If $A = \{1, 2, 3\}$ and $B = \{a, b, c\}$, $f = \{(1, a), (1, b), (1, c)\}$, $g = \{(1, a), (3, c), (2, b)\}$, $h = \{(1, a), (2, b)\}$, $h = \{(1, a), (2, b)\}$, $h = \{(1, a), (2, a)\}$ then
 - 3. Which of the above is one to one relation?
 - (a) f (b) g (c) h (d) q
 - 4. Which of the above is one to many relation?
 (a) f (b) q (c) h (d) q
 - 5. Which of the above is many to one relation?
 (a) f (b) q (c) h (d) q



- 6. If $f(x) = ax^2 + b^2$ and $f = \{(1, 7), (2, 16), (3, 31)\}$ then the value of a, b are _____. (a) 2, -1 (b) -2, 1 (c)3, -1 (d) -2, -1
- 7. If f from R X R defined by $f(x) = x^2 + 1$, then $f^{-1}\{5, 17, 26\} =$ (a) $\{-1, 1, 2\}$ (b) $\{0, 1, 2\}$ (c) $\{\underline{2}, 4, 5\}$ (d) $\{0, +2\}$
- 8. Given $f(x) = \sqrt{(x^2 + 1)}$ and g(x) = 1/x, then (fog)(x) =______.
- 9. If f(x) = 5x 2, g(x) = 2x 3 then (fog)(x) =
- 10. A function f is given by f(x) = (x 2)/5 then $f^{-1}(x) =$ ____.



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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."

- Gary Schwartz

- Kirk Riley

- Barbara Cabrera

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ANSWERS

1)	(c) 15
2)	(c) transitive
3)	(b) g
4)	(a) f
5)	(d) q
6)	3, 2



7)	(c) { <u>2</u> , 4, 5}
8)	$\sqrt{(x^2 + 1)/x}$
9)	10x - 17
10)	5x + 2