

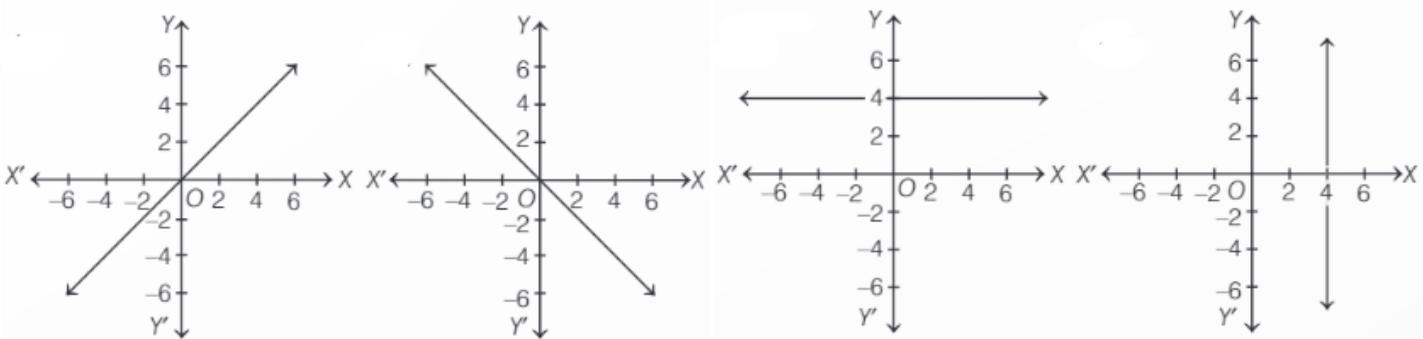


INDIAN SCHOOL AL WADI AL KABIR
Dept. of Mathematics 2024 – 2025
Class XI – Work Sheet – Relations and Functions 2

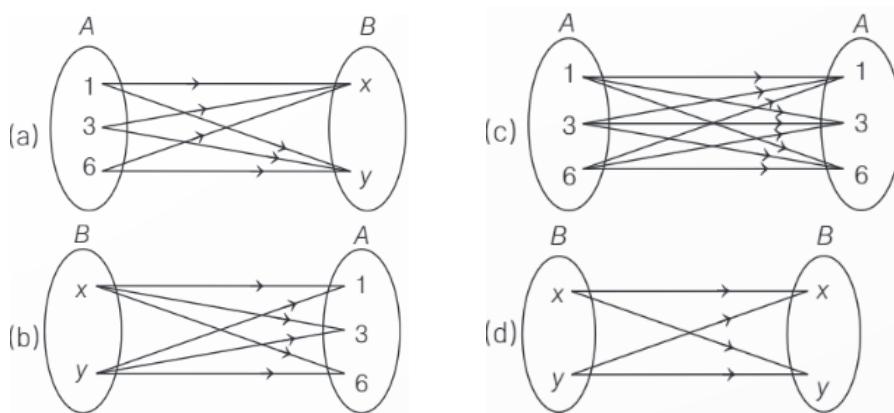


13	<p>Let $A = \{1, 2, 3, 4\}$ and $B = \{1, 4, 9, 16, 25\}$ and R be a relation defined from A to B, as $R = \{(x, y) : x \in A, y \in B \text{ and } y = x^2\}$, then domain of R and codomain of R is</p> <ul style="list-style-type: none"> (a) $\{1, 2, 3, 4\}$ and $\{1, 4, 9, 16, 25\}$ (b) $\{1, 4, 9, 16, 25\}$ and $\{1, 2, 3, 4\}$ (c) $\{1, 2, 3, 4\}$ and $\{1, 2, 3, 4, 9, 16, 25\}$ (d) None of the above
14	<p>The range of the function $\frac{ x-4 }{x-4}$, $x \neq 4$ is:</p> <ul style="list-style-type: none"> a) R b) $\{-1, 1\}$ c) $[-1, 1]$ d) None of these
15	<p>Is the given relation a function?</p>
	<p>$\{(3, 3), (4, 2), (5, 1), (6, 0), (7, 7)\}$</p>
	<ul style="list-style-type: none"> (a) Yes (b) No
	<ul style="list-style-type: none"> (c) cannot say (d) Insufficient data
16	<p>Domain of $\sqrt{a^2 - x^2}$ ($a > 0$) is</p>
	<ul style="list-style-type: none"> (a) $(-a, a)$ (b) $[-a, a]$
	<ul style="list-style-type: none"> (c) $[0, a]$ (d) $(-a, 0)$

17 The graph of an identity function on R is



18 If $A = \{1, 3, 6\}$ and $B = \{x, y\}$, then representation of cartesian products by an arrow diagrams of $A \cdot B$ is



- The answer will be discussed during the math lesson
