

Answers to Classwork Section– Relations and Functions

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|---|---|
| 1. No, not a function | $f(-3) = -14$
$f(0) = -2$ |
| 2. Yes, it is a function | 8. $f(2) = 16$
$f(x-1) = x^2 + 5x - 8$
$\frac{f(x+h)-f(x)}{h} = 2x + h + 7$ |
| 3. Yes, it is a function | |
| 4. Yes, it is a function | $f(-3) = -14$
$f(0) = 1$ |
| 5. $f(2) = 10$
$f(x-1) = 3x + 1$
$\frac{f(x+h)-f(x)}{h} = 3$ | 9. $f(2) = -9$
$f(x-1) = -2x^2 + 3x$
$\frac{f(x+h)-f(x)}{h} = -4x - 2h - 1$ |
| 6. $f(2) = -3$
$f(x-1) = -2x^2 + 4x + 3$
$\frac{f(x+h)-f(x)}{h} = -4x - 2h$ | $f(-3) = -13$
$f(0) = 5$ |
| 7. $f(2) = 5$
$f(x-1) = x^2 + 2x - 10$
$\frac{f(x+h)-f(x)}{h} = 2x + h + 4$ | |