

Practice Problems

1) Let $n \in \mathbb{Z}$, if n^2 is odd then n is odd.

By contrapositive:

If n is even, then n^2 is even

$$n = 2k \quad (k \in \mathbb{Z})$$

$$n^2 = (2k)^2$$

$$= 4k^2$$

$$= 2(2k^2) \text{ even } \checkmark$$

2) Let $a, b, c \in \mathbb{Z}$. If $a \mid bc$ then $a \mid b$ and $a \mid c$.

By contrapositive:

If $a \nmid b$ or $a \nmid c$ then $a \nmid bc$

$$a \nmid b \Rightarrow b \neq a \cdot a_1 \quad (a_1 \in \mathbb{Z}), \quad bc = a \cdot a_1 \cdot c = a(a_1 c) \text{ div by } a \quad \checkmark$$

$$a \nmid c \Rightarrow c \neq a \cdot a_2 \quad (a_2 \in \mathbb{Z}), \quad bc = b \cdot a \cdot a_2 = a(b a_2) \text{ div by } a \quad \checkmark$$

3) Let $x \in \mathbb{R}$. If $x^3 + x^2 + x - 3 < 0$ then $x < 1$

By contrapositive:

If $x \geq 1$, then $x^3 + x^2 + x - 3 \geq 0$

$$x^3 + x^2 + x - 3 \geq 1^3 + 1^2 + 1 - 3$$

$$0 \geq 0 \quad \checkmark$$

$$\text{Let } f(x) = x^3 + x^2 + x - 3 = 0$$

$$f(1) = 1^3 + 1^2 + 1 - 3 = 0$$

$f(x)$ is divisible by $x-1$

$$\begin{array}{r} x^3 + 2x + 3 \\ x-1 \overline{) x^3 + x^2 + x - 3} \\ \underline{x^3 - x^2} \end{array}$$

$$2x^2 + x - 3$$

$$\underline{2x^2 - 2x}$$

$$3x - 3$$

$$\underline{3x - 3}$$

$$0$$

$$\begin{aligned} \Rightarrow 0 &< x^3 + x^2 + x - 3 = (x-1)(x^2 + 2x + 3) \\ &= (x^2 + 2x + 1) + 2 \\ &= (x+1)^2 + 2 \geq 2 > 0 \\ &\geq 0 \end{aligned}$$

Math Practice 78

Walter Wilson Hart



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Mathematics Formative Assessment, Volume 2 Page Keeley, Cheryl Rose Tobey, 2016-12-08 This one of a kind resource helps you build a bridge between your students initial ideas and correct mathematical thinking Includes an annotated reference guide

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