

3. First note that $-a - a(b + c) = -a - ab - ac = -a$. Adding a to both sides we have
 $(-a - a(b + c)) + a = (-a - ab - ac) + a$ and so $-a - a(b + c) = 0 = -a$. Thus $-(-a) = a$.
 By associativity, we have $-a - a(b + c) = (-a - ab) + (-ac) = -a + ab + -ac = -a$.
4. From Proposition 1, we know $a + a(b + c) = 0$. Distributing, we have $ab + ac = -a + ab = 0$. Adding $-ab$ to both sides, we have $ac = -a + ab - ab = -ab = 0$. Thus, $0 = a + ab = -ab$ or $0 = -ab = -ab$.
5. Assume that $ab = ac$ and that $a \neq 0$. By subtracting ac from both sides, we obtain
 $ab - ac = 0$. By distribution, we have $a(b - c) = 0$. Since $a \neq 0$, $b - c = 0$. Adding c to both sides, we have $b = c$. Here we used the fact that the integers, if $ab = 0$, either a or b must be 0.
6. Since a divides b and a divides c , we can find integers p and q such that $b = ap$ and $c = aq$. So $b + c = ap + aq = (a + aq) + ap = ap + ap = 2ap$. Thus $a \mid (b + c)$.
7. a. $348 = 37 \cdot 9 + 12$
 b. $-539 = (-1) \cdot 539 + 0$
 c. $21 = 1 \cdot 21 + 0$
 d. $12 = 1 \cdot 12 + 0$
8. Let $a \mid b$ and $a \mid c$. Then there exist integers p and q such that $b = ap$ and $c = aq$. We can multiply to get $ac = apaq$. So a is a multiple of ac . Thus $a \mid ac$.
9. If $a = apb + r$, then $-a = -(apb + r) = -apb - r$. (Note that $0 \leq r < a$.)
10. The integers a , $a + 1$, and $a + 2$ are three consecutive integers. So one of them is a multiple of three. So the product is a multiple of 3. Note, this can also be proved by induction.
11. Proof by induction:
 Base Case: Let $a = 0$. Then we have $2^{a+1} + 3^{a+1} = 2 + 3 = 5$ and 5 certainly divides 5.
 Assume that 5 divides $2^{a+1} + 3^{a+1}$ so that there is an integer p such that $5p = 2^{a+1} + 3^{a+1}$. Now consider $2^{a+2} + 3^{a+2}$. Notice that $2^{a+2} + 3^{a+2} = 2 \cdot 2^{a+1} + 3 \cdot 3^{a+1} = 2(2^{a+1} + 3^{a+1}) + 3^{a+2}$. This equals $2(5p) + 3^{a+2} = 2 \cdot 5 + 3^{a+2} = 25 + 3^{a+2}$. Thus 5 divides $2^{a+2} + 3^{a+2}$, which proves that 5 divides $2^{a+1} + 3^{a+1}$ for all $a \geq 0$.

8.2 To the Teacher Tasks

1. $423221 = 104 \cdot 341 + 2021$ in base 1000. In base 12, we let $ten = T$, and $eleven = E$. Then $423221 = 100 \cdot 341 + 1021$.

Section 8.3

1. a. 1, 2, 3, 5, 7, 11, 13, 17, 19

2. i. Any integer a that divides both m and n divides both $m + n$ and $m - n$ conversely. Thus the set of common divisors of m and n is identical to the set of common divisors of $m + n$ and $m - n$.
 ii. Since $[ab]$ is a divisor of m , and it is the gcd of m , since no number larger than $[ab]$ can divide m .
 iii. Since 3 divides any integer n , and no number greater than 3 divides 3, $\gcd(n, 3) = 1$.

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