

3. First note that $-(+a) = (-a) = 0$. Adding a to both sides, we have:

$$(-(-a)) + (-a)(b + a) = 0 + a = a.$$
 By associativity, we have $-(+a) + 0(-a)(b + a) = a$ and so $-(+a) + 0 = a$. Thus $-(+a) = a$.
4. From Proposition 1, we know $(a + (-a))(b) = 0$. Distributing, we have $ab + (-a)b = 0$. Adding $-ab$ to both sides, we have $(-ab + ab) + (-a)b = -ab + 0$. Thus $0 + (-a)b = -ab$ or $(-a)b = -ab$.
5. Assume that $ab = ac$ and that $a \neq 0$. By subtracting ac from both sides, we obtain $ab - ac = 0$. By distributivity, we have $a(b - c) = 0$. Since $a \neq 0$, $b - c = 0$. Adding c to both sides, we have $b = c$. Here we need the fact that for integers, if $ab = 0$, either a or b (or both) must be 0.
6. Since a divides b and a divides c , we can find integers q and r such that $b = aq$ and $c = ar$. So $a(b + c) = a(aq + ar) = a(aq + ar)$. Thus $a \mid (ab + ac)$.
7.

i.	$335 = 19 \cdot 17 + 12$
ii.	$-515 = (-29) \cdot 17 + 9$
iii.	$21 = 1 \cdot 13 + 8$
iv.	$13 = 1 \cdot 8 + 5$
8. Let $a \mid b$ and $a \mid c$. Then there exist integers p and q such that $b = pa$ and $c = qa$. We can multiply to get $acpq = bcd$. So bcd is a multiple of ac . Thus ac divides bcd .
9. If $a = qb + r$, then $-a = (-q - 1)b + (b - r)$. (Note that $0 \leq (b - r) < b$.)
10. The integers n , $n + 1$, and $n + 2$ are three consecutive integers. So one of them is a multiple of three. So the product is a multiple of 3. Notice, this can also be proved by induction.
11. **Proof by induction:**
 Base Case: Let $n = 0$. Then we have $2^{n+1} + 3^{n+1} = 2 + 3 = 5$ and 5 certainly divides 5.
 Assume that 5 divides $2^{n+1} + 3^{n+1}$ so that there is an integer q such that $5q = 2^{n+1} + 3^{n+1}$.
 Now consider $2^{n+2} + 3^{n+2}$. Note that $2^{n+2} + 3^{n+2} = 2 \cdot 2^{n+1} + 3 \cdot 3^{n+1} = 2 \cdot 2^{n+1} + 2 \cdot 3^{n+1} + 3^{n+2} - 3^{n+1}$. This equals $2(2^{n+1} + 3^{n+1}) + 3^{n+2} - 3^{n+1} = 2(5q) + 5 \cdot 3^{n+1} - 5 \cdot 3^{n+1} = 5(2q + 3^{n+1})$. Thus 5 divides $2^{n+2} + 3^{n+2}$, which proves that 5 divides $2^{n+1} + 3^{n+1}$ for all $n \geq 0$.

1.2 To the Teacher Task:

1. $42(32) = 104 \cdot 341 + 202$ in base 10. In base 12, we let ten = T, and eleven = E. Then $42(32) = 130 \cdot 341 + 1E1$.

Section 1.3

1. i. 1, 2; ii. 17; iii. 1; iv. 1

2.

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

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