Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓

Lesson 2.3.1: Representations of Relations

Total points = 15

A. 1. Relation = $\{(1,20)✓,(2,40)✓,(3,60)✓,(4,80)✓\}$

x	1	2	3	4 ✓
y	20	40	60	80 ✓

B. For each relation, determine the domain, range, and kind of pairing.

1. {(0, 2), (1, 3), (2, 4), (3, 5), (4,6)}
   $D=\{0,1,2,3,4\}$✓, $R=\{2,3,4,5,6\}$✓
   One-to-one correspondence✓
2. {(0, 2), (0,4), (0, 6), (0, 8), (0, 10)}
   $D=\{0\}$✓, $R=\{2,4,6,8,10\}$✓
   One-to-many correspondence✓
3. {(-5, -2), (-2, -2), (1, 0), (4, 2), (7, 2)}
   $D=\{-5,-2,1,4,7\}$✓, $R=\{-2,0,2\}$✓
   Many-to-one correspondence✓