



Math worksheet on 'Cartesian Grid - Direction from Coordinates (Angle) (Level 1)'. Part of a broader unit on 'Cartesian Grid Basics - Practice'

Learn online: [app.mobius.academy/math/units/cartesian\\_grid\\_practice/](http://app.mobius.academy/math/units/cartesian_grid_practice/)

**1** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(4, 2)  
Point B:(5, 4)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Right 2, Up 2   |
| <b>b</b> | Right 1, Up 1   |
| <b>c</b> | Right 1, Up 2   |
| <b>d</b> | Up 2            |
| <b>e</b> | Left 2, Up 1    |
| <b>f</b> | Right 1, Down 2 |

**2** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(3, 4)  
Point B:(4, 5)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Left 1, Up 1    |
| <b>b</b> | Right 1, Down 1 |
| <b>c</b> | Right 1, Up 1   |
| <b>d</b> | Right 2, Up 1   |
| <b>e</b> | Right 1         |
| <b>f</b> | Right 1, Up 2   |

**3** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(0, 2)  
Point B:(2, 3)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Right 2, Up 1   |
| <b>b</b> | Right 2, Up 2   |
| <b>c</b> | Right 2, Down 1 |
| <b>d</b> | Right 1, Up 2   |
| <b>e</b> | Left 1, Up 2    |
| <b>f</b> | Left 2, Up 1    |

**4** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(0, 0)  
Point B:(3, 4)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Right 2, Up 4   |
| <b>b</b> | Right 4, Up 4   |
| <b>c</b> | Right 3, Up 4   |
| <b>d</b> | Right 3, Up 3   |
| <b>e</b> | Right 3, Up 5   |
| <b>f</b> | Right 4, Down 3 |

**5** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(2, 0)  
Point B:(3, 1)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Up 1            |
| <b>b</b> | Right 2, Up 1   |
| <b>c</b> | Left 1, Up 1    |
| <b>d</b> | Right 1, Down 1 |
| <b>e</b> | Right 1, Up 1   |
| <b>f</b> | Right 1, Up 2   |

**6** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(1, 1)  
Point B:(2, 2)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Up 1            |
| <b>b</b> | Right 1, Up 1   |
| <b>c</b> | Right 1, Down 1 |
| <b>d</b> | Left 1, Up 1    |
| <b>e</b> | Right 1         |
| <b>f</b> | Right 1, Up 2   |

**7** Find the direction that the given move between (x,y) coordinates A and B would be

Point A:(0, 1)  
Point B:(3, 4)

- |          |                 |
|----------|-----------------|
| <b>a</b> | Right 3, Up 2   |
| <b>b</b> | Right 3, Down 3 |
| <b>c</b> | Right 3, Up 4   |
| <b>d</b> | Right 4, Up 3   |
| <b>e</b> | Left 3, Up 3    |
| <b>f</b> | Right 3, Up 3   |