Vector Based Word Problems - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

_____   1. Ethan goes to the park. The park is 85 km   a. 96.66 m/s
                  away from his house towards south. After 2.00
                  minutes, Ethan is 195 km away from his house
                  towards west. Find Ethan's average velocity.

_____   2. Emily rides a bicycle from her home. She goes   b. 1.44 km/s
                  east at 40 m/s and south at 88 m/s. What is the
                  bicycle's relative velocity to her friend waiting at
                  home?

_____   3. Amelia is flying a kite 85 km away from the
                  park kite area towards north. After 2 minutes,   c. 261.73 m/s
                  the kite is 165 km away from kite area towards
                  east. Find the average velocity of the kite.

_____   4. Harper goes to school. He goes 96 km from   d. 1.58 km/s
                  his home towards south. After 2.00 minutes,
                  Harper is 144 km from his house towards west.
                  Find Harper's average velocity.

_____   5. Isaac drives a car from his office. He goes   e. 121.03 m/s
                  north at 75 m/s and west at 95 m/s. What is the
                  car's relative velocity to his boss waiting at
                  Isaac's office?

_____   6. Joshua drives a car from his home. He goes   f. 1.55 km/s
                  west at 190 m/s and south at 180 m/s. What is
                  his velocity relative to his home?

_____   7. Aiden goes to his office. He goes 175 km from   g. 1.77 km/s
                  his home towards east. After 3.00 minutes,
                  Aiden is 225 km away from the office towards
                  south. Find Aiden's average velocity.