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Relative Velocity Quiz

Solve the following problem. Explain your work. No marks are awarded for the correct answer.

Angus is jogging at 2.5 m/s [N57°W]. Tiffany is jogging at 2.5 m/s [N22°W]. What is Angus's velocity relative to Tiffany?

Angus is moving 1.5 m/s [S51°W] relative to Tiffany.

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Solve the following problem. Explain your work. No marks are awarded for the correct answer.

Eric is walking at 2.4 m/s [N64°W]. Lily is jogging at 2.9 m/s [N50°W]. What is Eric's velocity relative to Lily?

Eric is moving 0.8 m/s [S5°E] relative to Lily.

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Solve the following problem. Explain your work. No marks are awarded for the correct answer.

Stella is running at 7.8 m/s [S45°E]. Timothy is walking at 2.2 m/s [N48°E]. What is Stella's velocity relative to Timothy?

Stella is moving 8 m/s [S29°E] relative to Timothy.

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Solve the following problem. Explain your work. No marks are awarded for the correct answer.

Grace is running at 11.6 m/s $[\text{S}25^\circ\text{E}]$. Patrick is walking at 1.9 m/s $[\text{N}51^\circ\text{E}]$. What is Grace's velocity relative to Patrick?

Grace is moving 12.2 m/s $[\text{S}16^\circ\text{E}]$ relative to Patrick.