A ball is thrown directly upward. Assume minimal drag.

These questions apply to the time <u>after</u> the ball leaves the person's hand but <u>before</u> it lands.

a) During what part of the path is the velocity positive?

b) During what part of the path is the velocity negative?

c) During what part of the path is the velocity zero?

d) During what part of the path is the acceleration positive?

e) During what part of the path is the acceleration positive?

f) During what part of the path is the acceleration positive?

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These questions apply to the time <u>after</u> the ball leaves the person's hand but <u>before</u> it lands.

a) During what part of the path is the velocity positive?

On the way up (+v = upward).

b) During what part of the path is the velocity negative?

On the way down (-v = downward).

c) During what part of the path is the velocity zero?

At the top: turnaround.

d) During what part of the path is the acceleration positive?

None.

e) During what part of the path is the acceleration negative?

The entire time - gravity points downward.

f) During what part of the path is the acceleration zero?

None.