Slippery Slope

The graph of a linear equation passes through the points \((2, 5)\) and \((k - 4, k + 2)\).

1. For what values of \(k\) will the slope of the line be positive?
2. For what values of \(k\) will the slope of the line be negative?

Extra: What value does the slope of the line approach as \(k\) becomes a very large positive number? Why do you think that happens?

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