

(1) [3] Determine the equation of the line of slope $-2/3$ through the point $(1, -1)$.

(2) [4] Determine the slope and y -intercept of the line $2x - 3y = 5$.

(3) [3] Determine the equation of the line through $(1, 4)$ with slope undefined.

(4) [5] Temperature can be measured using degrees Celsius ($^{\circ}C$) or degrees Fahrenheit ($^{\circ}F$), and the relationship between the two is linear. Given that $0^{\circ}C$ corresponds to $32^{\circ}F$ and $100^{\circ}C$ corresponds to $212^{\circ}F$, determine an equation relating $^{\circ}C$ and $^{\circ}F$.