

6. (a) Let the reading on the Celsius scale be  $x$  and the reading on the Fahrenheit scale be  $y$ . Then  $y = \frac{9}{5}x + 32$ . For  $x = -71$ , this gives  $y = -96$ .
- (b) The relationship between  $y$  and  $x$  may be inverted to yield  $x = \frac{5}{9}(y - 32)$ . Thus, for  $y = 134$  we find  $x \approx 56.7$  on the Celsius scale.