## 18.03SC Practice Problems 7

## Sinusoids

- **1.** Write each of the following functions (of t) in the form  $A\cos(\omega t \phi)$ . In each case, begin by drawing a right triangle with sides a and b.
- (a)  $\cos(2t) + \sin(2t)$ .
- (b)  $\cos(\pi t) \sqrt{3}\sin(\pi t)$ .
- (c) Re  $\frac{e^{it}}{2+2i}$ .

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