A sampled sine wave

- 4 levels: -0.75; -0.25; 0.25; 0.75
- Decision thresholds: -0.5; 0; 0.5
Adding ISI

d - 0.4

gain
What we receive

\[
\text{input} = \sin \left( \frac{t}{3} \right)
\]
What we receive (cont.)

\[ \text{input} = \sin(1.4 \times t) \]
With equalization (time domain)

• input = \sin(t/3)

• \( e(t) = r(t) + 0.4 \, r(t - 1) + 0.16 \, r(t - 2) \)
With equalization (time domain)

- input = \sin(3t)