

```
usepackage{microtype}
usepackage{geometry}
usepackage{hyperref}
hypersetup{hidelinks}
\ix{textbook}{microtype}{geometry}{hyperref}{multicol}{margin = 1in}{hidelinks}
```

# Setup Smoke Test

Generated by LaTeXify

November 10, 2025

## 1 page0004-chunk001

```
2 % chem snippet
textbackslash[reflection acrossy = x). ii Vertical li
textbackslash]
textbackslash[reflect graph ofy = p(x) across y = x graph ofp1 Apply VLT top1 : some
verticals cut the graph twice I
textbackslash]
textbackslash[=Ra
textbackslash]
textbackslash[=Dom(p) b) f1 i I
textbackslash]
textbackslash[reflection acrossy = x). ii Vertical li
textbackslash]
textbackslash[vertical line acrossy = x a
textbackslash]
```

## 2 page0009-chunk001

```
2
textbackslash[=f(x 1) + 3 The a = 1 i
textbackslash]
textbackslash[thek = 1 i
textbackslash]
textbackslash[the d = 1 (from x d = x (1) =x + 1) i
textbackslash]
textbackslash[and the c = 3i
textbackslash]
textbackslash[d = 1 1 + (1) = 2 y= a y+ c = (1)(2) + 3 = 5 Therefore, the resulti
textbackslash]
```

### 3 page0003-chunk001

2  
textbackslash[=  $2r^2 + 2r$   $x = 2y^2 + 2y$   $1 \cdot x + 1 = 2(y^2 + y)$   $x + 1 = 2[(y + 1)^2]$   $2 \cdot 1 \cdot 4$ ]  $x + 1 = 2(y + 1)^2$   $2 \cdot 1 \cdot 2 \cdot x + 3 \cdot 2 = 2(y + 1)^2$   $2 \cdot x \cdot 2 + 3 \cdot 4 = (y + 1)^2$   $y + 1 \cdot 2 = \pm x^2 + 3 \cdot 4$   $y = 1 \cdot 2 \pm x^2 + 3 \cdot 4$   $p1(x) = 1 \cdot 2 \pm x^2 + 3 \cdot 4$  b)  $3y + 5x = 18$   $3y + 5x = 18$   $3y = 5x + 18$   $3y = 5x + 18$   $5f1(x) = 3 \cdot 5 \cdot x + 18$  5 c)  $h(t) = 4.9(t + 3)^2 + 45.8 \cdot x = 4.9(y + 3)^2 + 45.8 \cdot x$   $45.8 = 4.9(y + 3)^2$   $45.8 \cdot x = 4.9(y + 3)^2$   $45.8 \cdot x \cdot 4.9 = (y + 3)^2$   $y + 3 = \pm 45.8 \cdot x \cdot 4.9$   $y = 3 \pm 45.8 \cdot x \cdot 4.9$   $h1(x) = 3 \pm 45.8 \cdot x \cdot 4.9$  2  
textbackslash]

### 4 page0001-chunk001

2 {"items": [{"text": "Basic Advanced Functions — Part 1: Communication Problems"}, {text: "Your Name"}, {text: "October 28, 2025"}, {"bbox": [0.0, 0.0, 1.0, 1.0], "source": "heuristic"}]}

### 5 page0002-chunk001

2  
textbackslash[Speed = Dista  
textbackslash]  
textbackslash[=400 t (t > 0, km/h) b) A  
textbackslash]  
textbackslash[=v0 (1/2)t/T1/2 v(t) = 125 (1/2)t/5 c) Scott drives at a co  
textbackslash]  
textbackslash[= 50t Questio  
textbackslash]

### 6 page0008-chunk001

2  
textbackslash[=f(x + 1)3 The d = 1 (si  
textbackslash]  
textbackslash[d = x (1) = x + 1) i  
textbackslash]  
textbackslash[ndicates a horizontal translation of 1 unit to the left and the c = 3 i  
textbackslash]  
textbackslash[d = 1 1 + (1) = 0 y = a y + c = 1(2) + (3) = 5 Therefore, the result i  
textbackslash]  
textbackslash[=f(2x) The a = 1 i  
textbackslash]

```
textbackslash[axis and thek = 2i  
textbackslash]
```

## 7 page0005-chunk001

```
2 % chem snippet  
textbackslash[reflection acrossy = x). ii Vertical li  
textbackslash]  
textbackslash[reflect graph ofy = h(x) across y = x relatio  
textbackslash]  
textbackslash[=Ra  
textbackslash]  
textbackslash[=Dom(h) Questio  
textbackslash]  
textbackslash[= 2x2 8 4  
textbackslash]
```