```bash
#!/bin/bash

# Find all pdfs
PDFS=($(find latex -type f -name '*.pdf'))
for pdf in "${PDFS[@]}"; do
    # Parse their dimensions
    NEW_DIMS=$(
        identify -verbose "$pdf" \
            | awk -F':' '/Print size/{ \
                    gsub(" ", "", $2); \
                    split($2, results, /x/); \
                    printf "%dx%d", 150*results[1], 150*results[2]; \
                }'
    )
    # Create a png copy
    convert \
        -density 300 \
        "$pdf" \
        -resize "$NEW_DIMS" \
        -background white \
        -flatten \
        "${pdf/pdf/png}"
done
```